

```

UVPKM <-
function(model,fixed.params,which.quantile=0.95,CV.params=NULL,censored.params=NULL,samples=1
000)
{
  sample.vec <- rep(NA,samples)
  for (this.sample in 1:samples)
  {
    these.params <- fixed.params
    for (this.param in names(CV.params))
    {
      if (!(this.param %in% names(fixed.params))) stop(paste("Cannot find parameter",this.param,"in
parameter list."))
      if (these.params[[this.param]]>0) these.params[[this.param]] <-
rtnorm(1,mean=fixed.params[[this.param]],sd=fixed.params[[this.param]]*CV.params[[this.param]],lower=
0)
      else warning(paste(this.param,"has mean of zero, yielding SD of zero for fixed CV. Parameter left
fixed."))
    }
    for (this.param in names(censored.params))
    {
      if (!(this.param %in% names(fixed.params))) stop(paste("Cannot find parameter",this.param,"in
parameter list."))

      these.params[[this.param]] <-
r.left.censored.norm(1,mean=fixed.params[[this.param]],sd=fixed.params[[this.param]]*censored.params[[[

this.param]]$sd,ld=censored.params[[this.param]]$ld)
    }
    sample.vec[this.sample] <- eval(call(model,these.params))
  }

  return(quantile(sample.vec,which.quantile))
}

```